

Abstract

5 The invention relates to a radial piston pump (1) for  
high-pressure fuel generation in fuel injection systems  
of internal combustion engines, in particular in a  
common rail injection system, having a drive shaft (4)  
which is mounted in a pump casing (2) and has an  
10 eccentric shaft section (6) on which a running roller  
(8) is mounted, and having preferably a plurality of  
pistons (16), which are arranged in a respective  
cylinder (14) radially with respect to the drive shaft  
(4) and each have a piston footplate (18), which makes  
15 contact with the circumferential surface (10, 12) of  
the running roller (8), at their ends facing the  
running roller (8).

The invention provides that at least that surface (28)  
20 of the piston footplate (18) which is in contact with  
the circumferential surface (10, 12) of the running  
roller (8) consists of a wear-resistant material,  
namely of hard metal, a ceramic material, a cast  
carbide material, or cermet.

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Fig. 1